**INTEGRATION WITH SIMPLE SUBSTITUTION**

We use simple substitution to integrate functions that are complex to integrate, and functions that do not fit forms such as etc.

We tend to use simple substitution with composite functions, or products of composite functions, and replace the inner function with a variable, usually .

Example: Integrate these functions using substitution.

1)

Use

Substitute back into result, therefore:

2)

Use

Also:

Substitute back into the result, therefore:

3)

Use

Substitute back into the result, therefore:

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